

# Leading the Launch



*Delivering a payload of  
responsive technologies*



## Technology Deployment



HOME OF SCIENCE AND ENGINEERING SOLUTIONS

IDAHO NATIONAL ENGINEERING AND ENVIRONMENTAL LABORATORY



## In Situ Underwater Gamma Spectroscopy

### *Problem*

INEEL's Decontamination and Decommissioning project needed to characterize radioactive objects stored in the Material Test Reactor's fuel storage canal.

### *Baseline Technology*

Remove object or representative sample, package, and transport for off-site analysis.

### *Innovative Technology*

The In Situ Underwater Gamma Spectroscopy system allows characterization of whole radioactive objects at depths up to 35 feet.

### *Comparison*

This system eliminated the need for removal, packaging, and transport of samples.

### *Benefits*

This system enabled the project to reduce worker exposure, accelerate schedule, and accrue a cost avoidance associated with sampling, transport, off-site analysis, and management of secondary waste (approximately \$10,000 per sample).